

FIG. 2

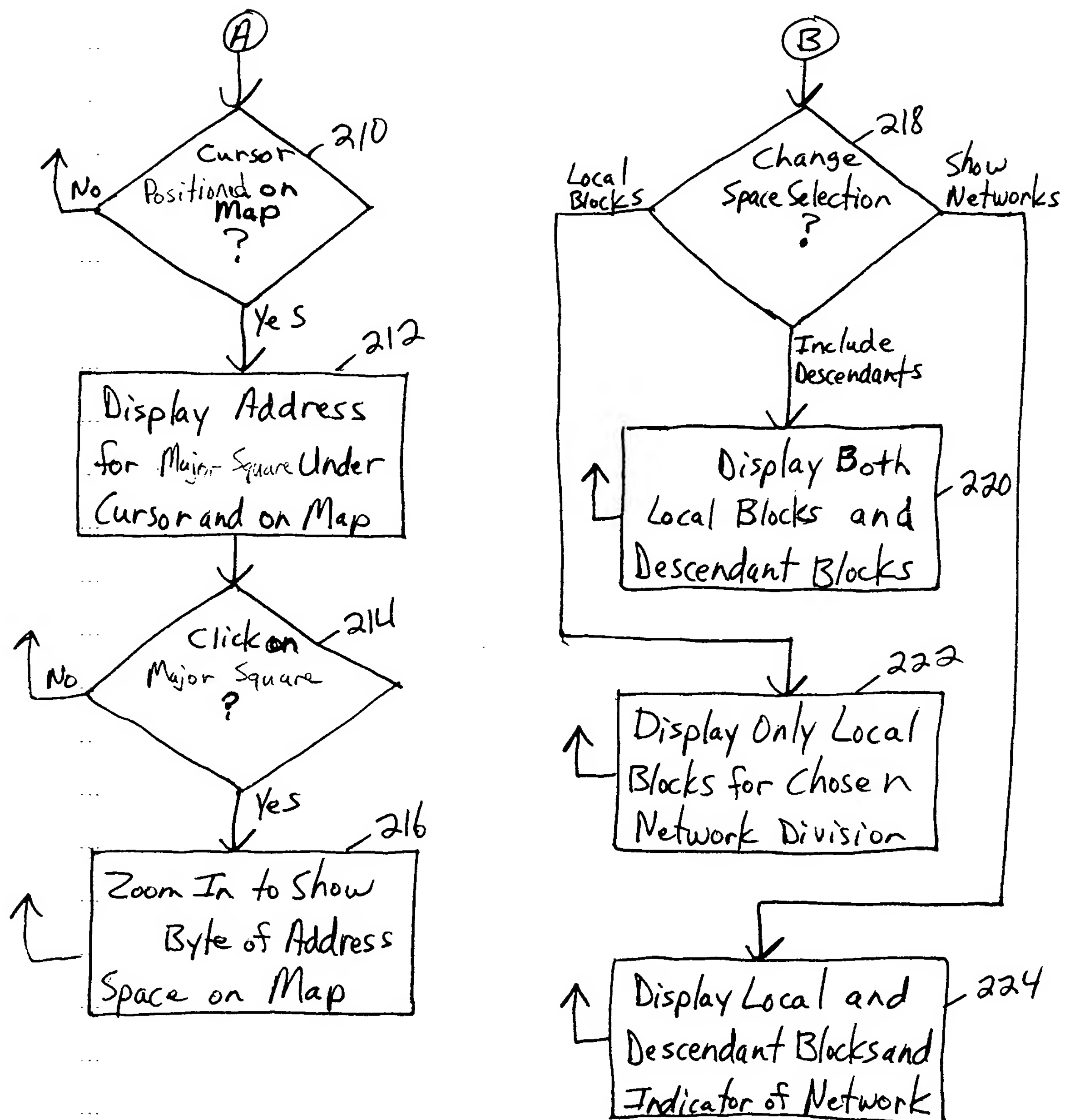
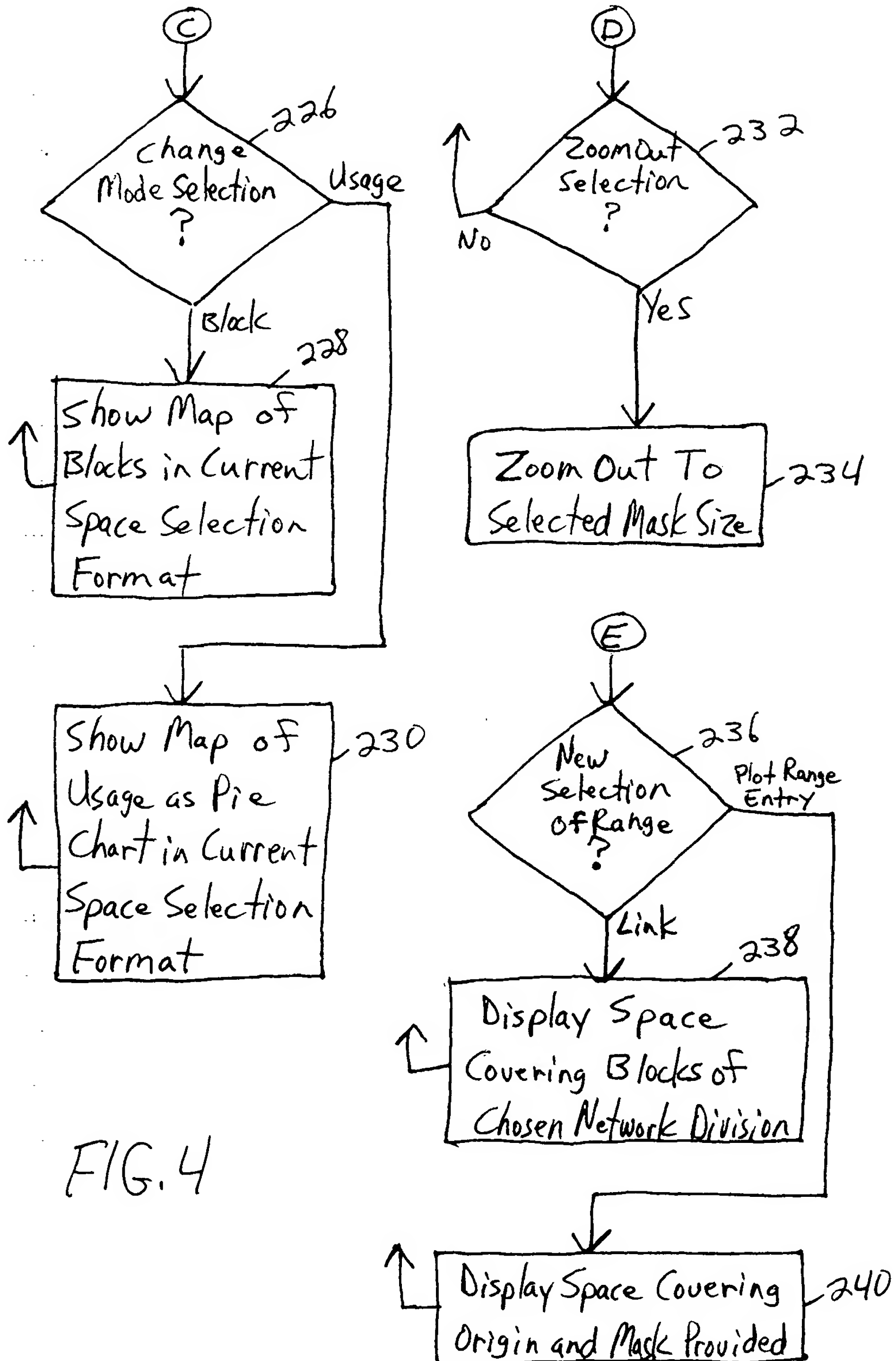
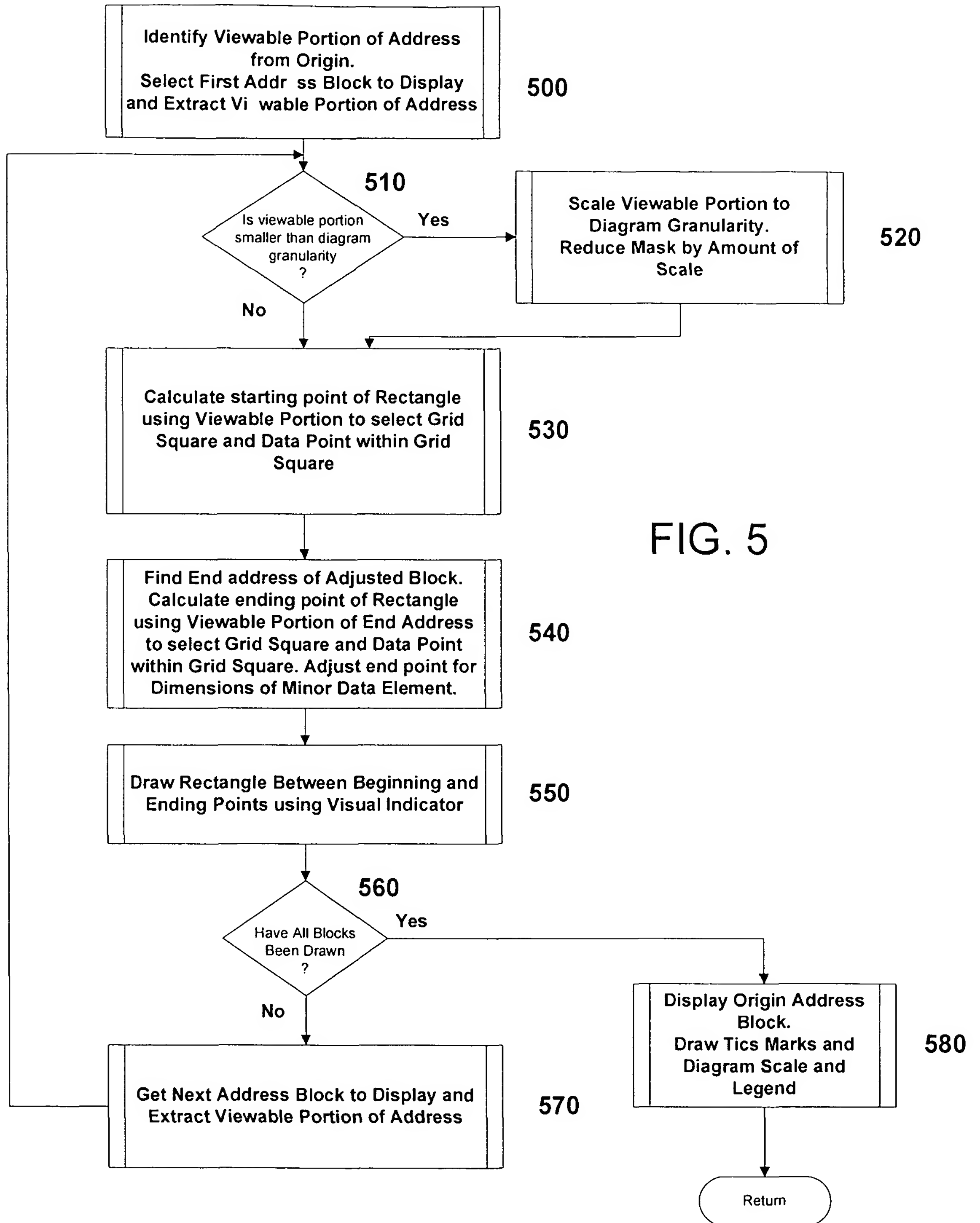


FIG. 3





	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0000	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0001	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0010	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
0011	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0100	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
0101	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
0110	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
0111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
1000	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
1001	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1010	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1011	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
1100	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
1101	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
1110	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
1111	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

606

604

602

FIG. 6

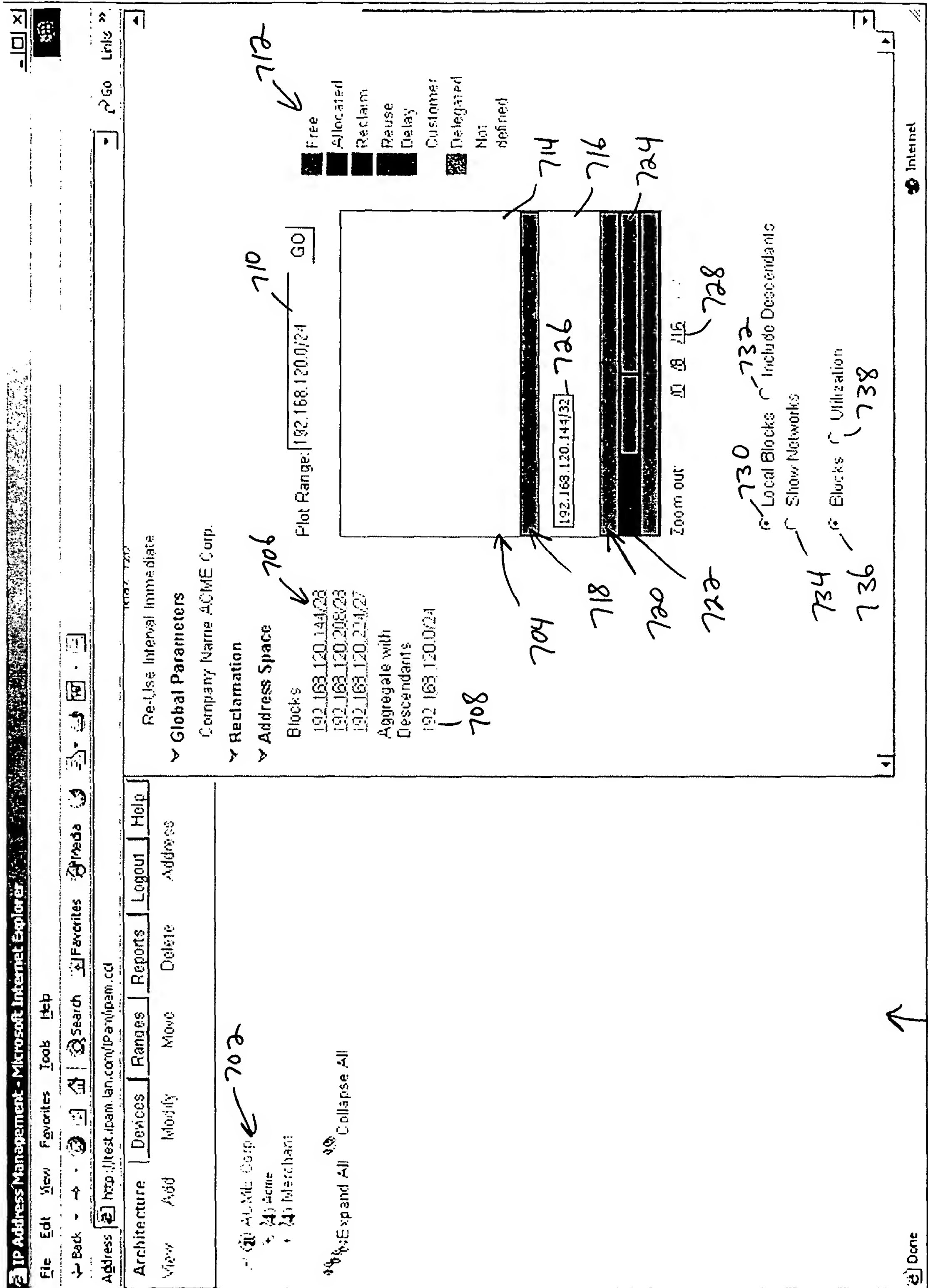


FIG. 7

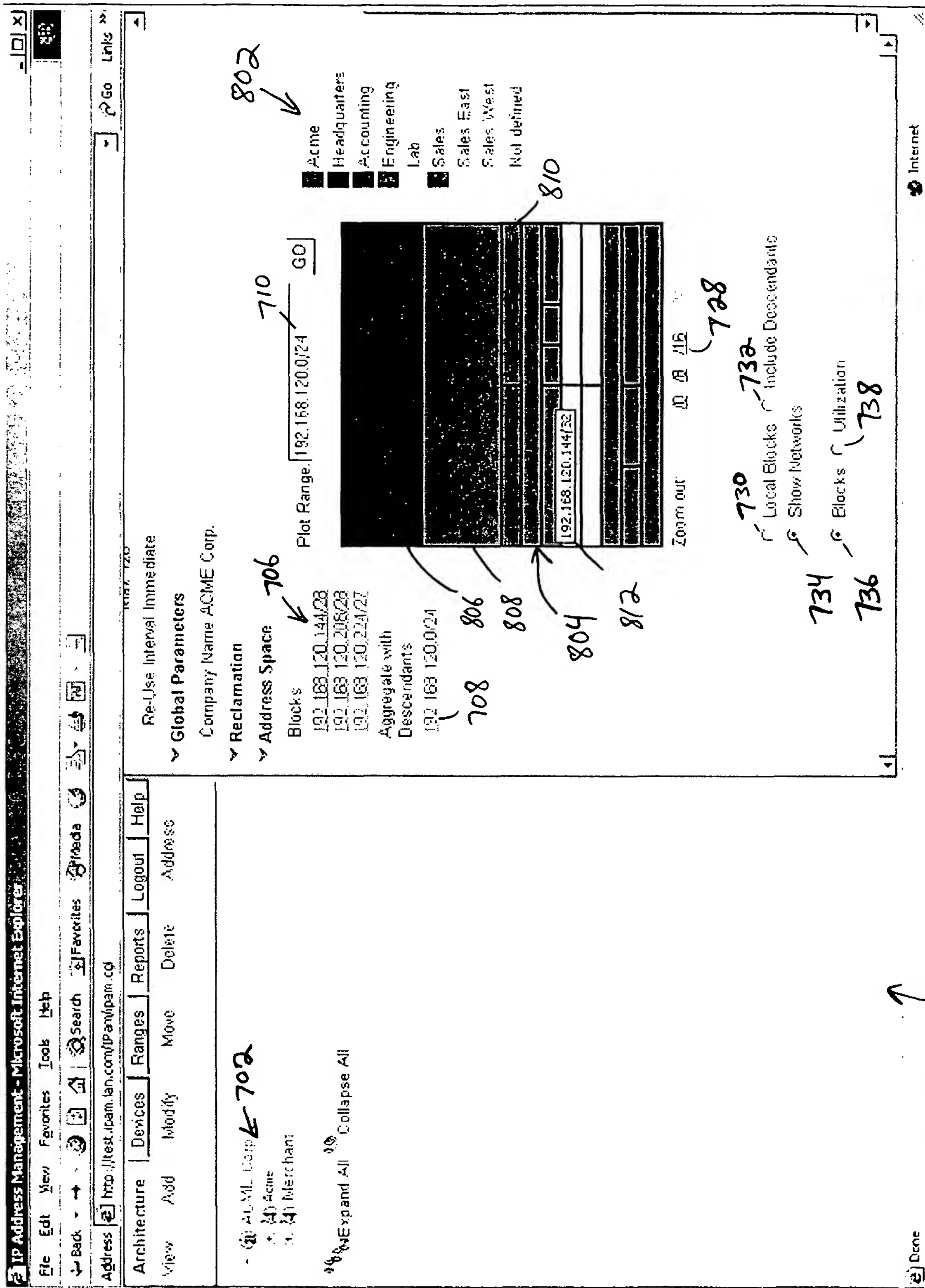


FIG. 8

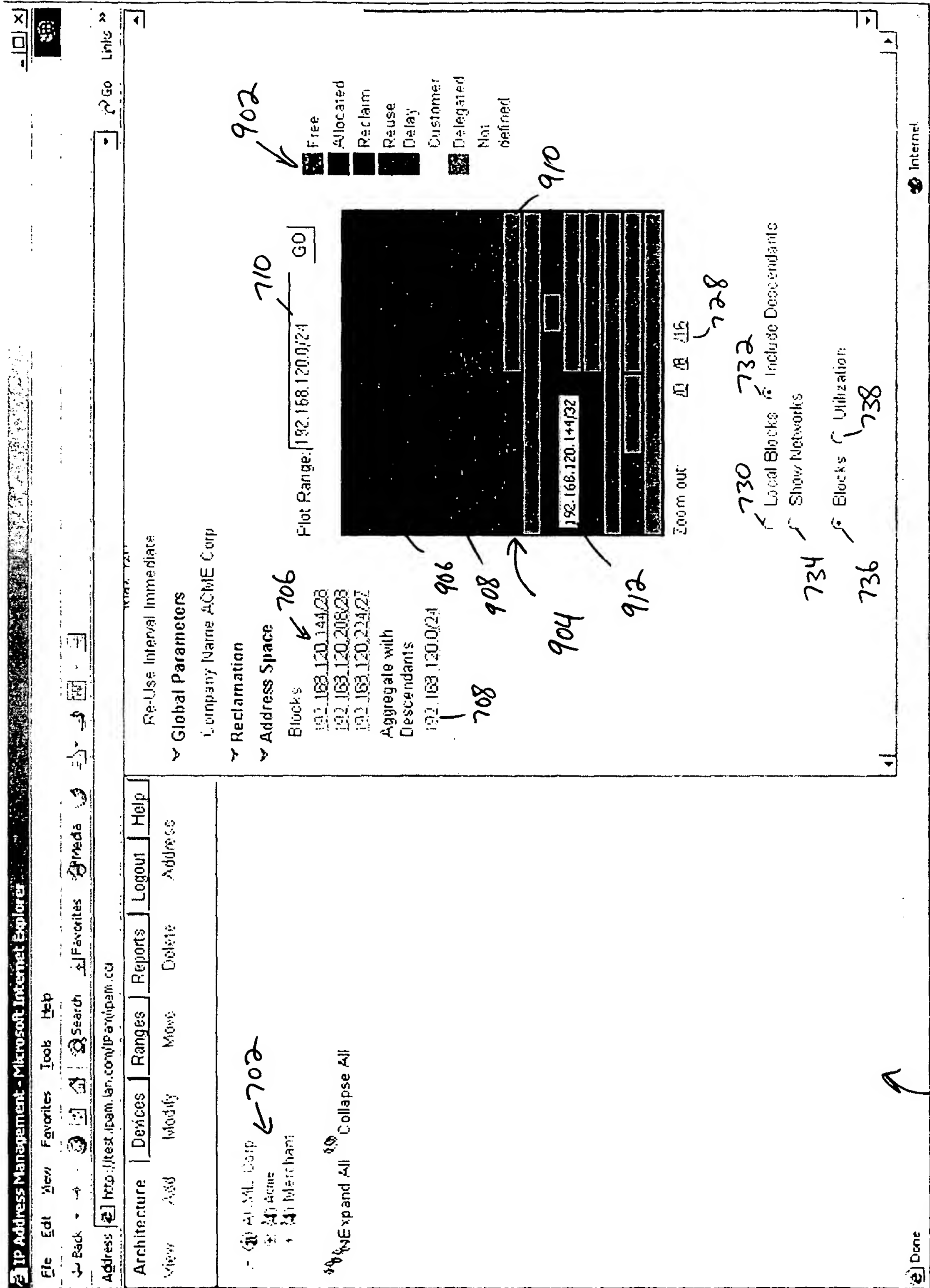
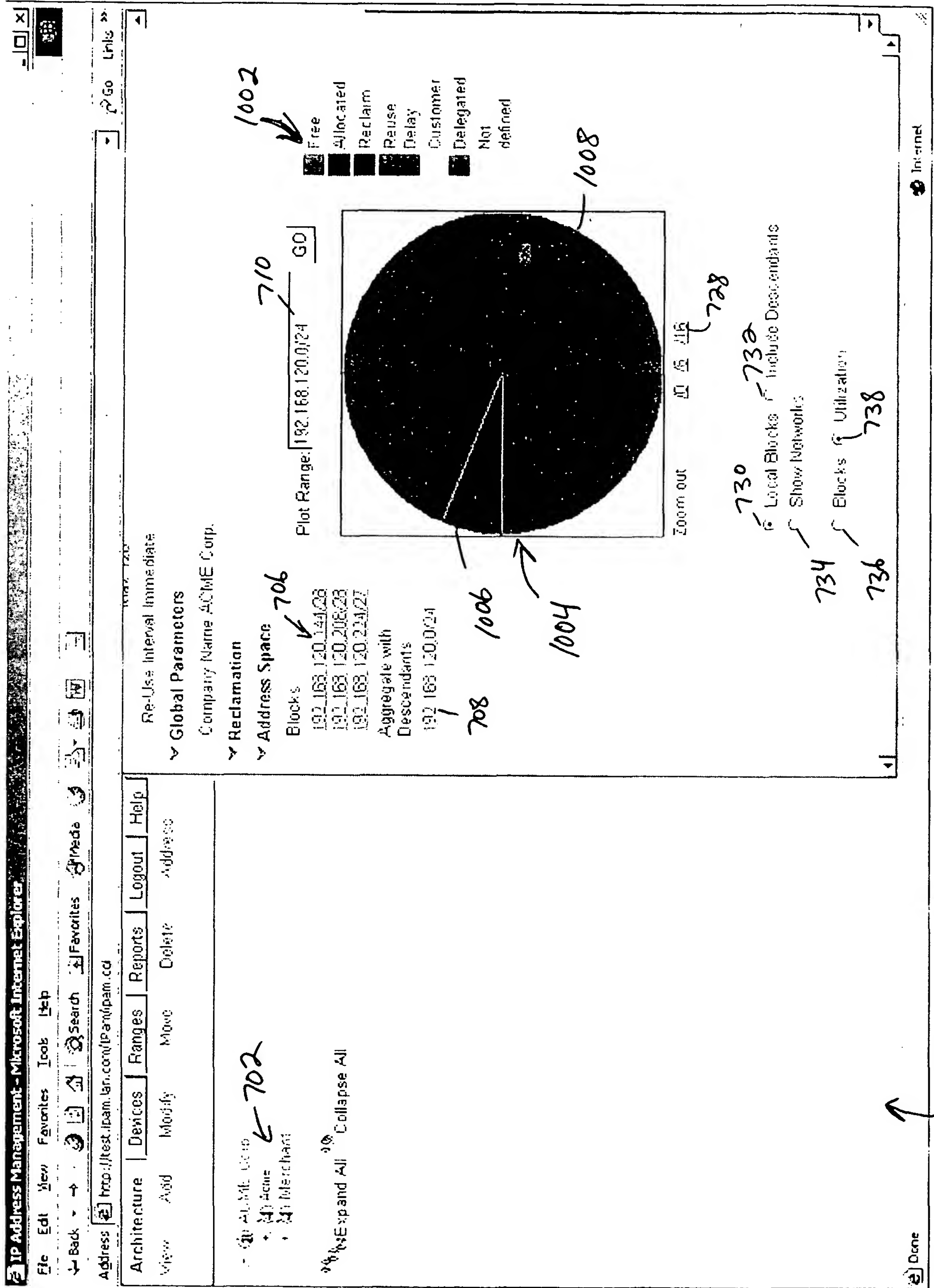


FIG. 9



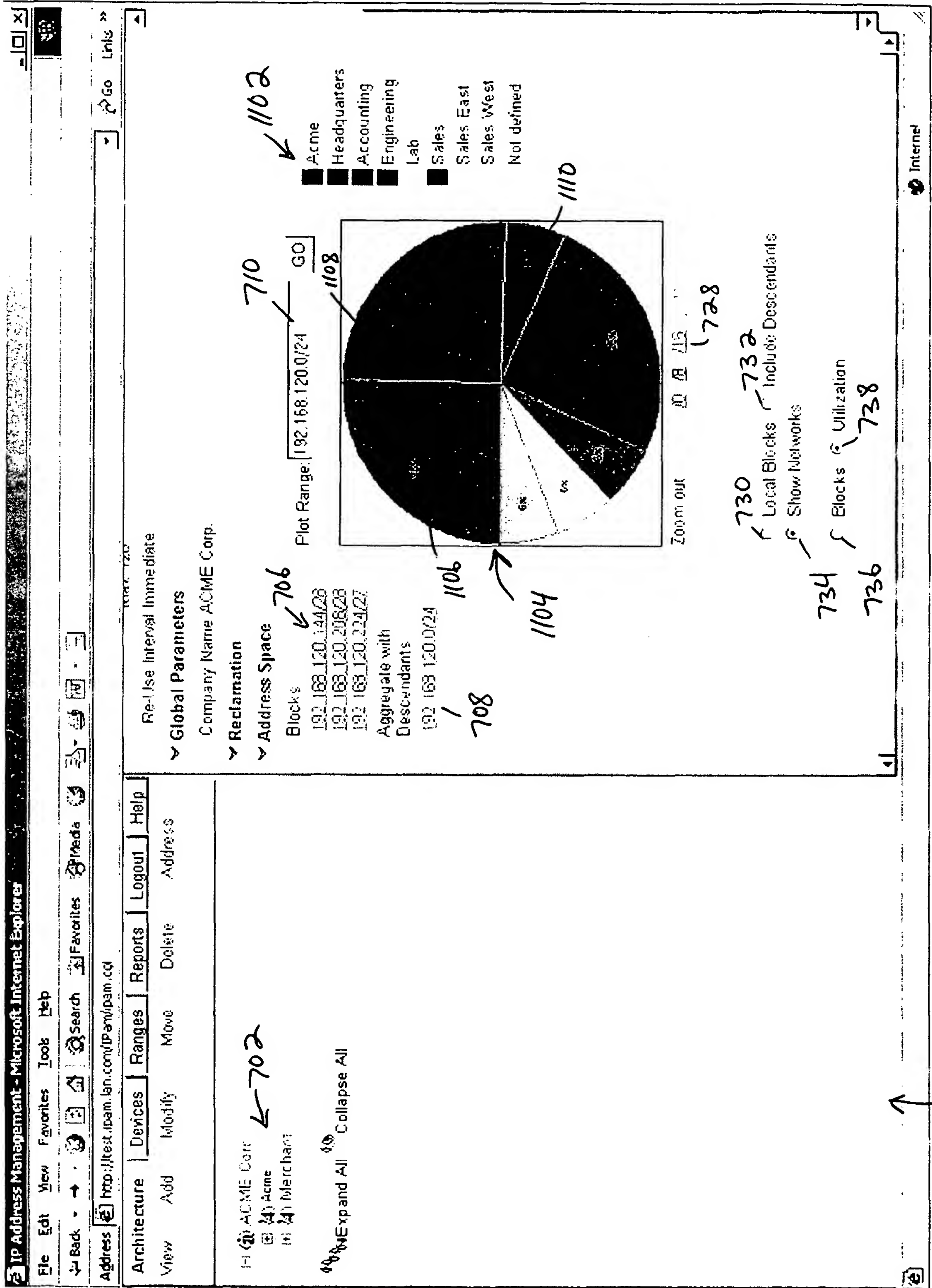


FIG. 11

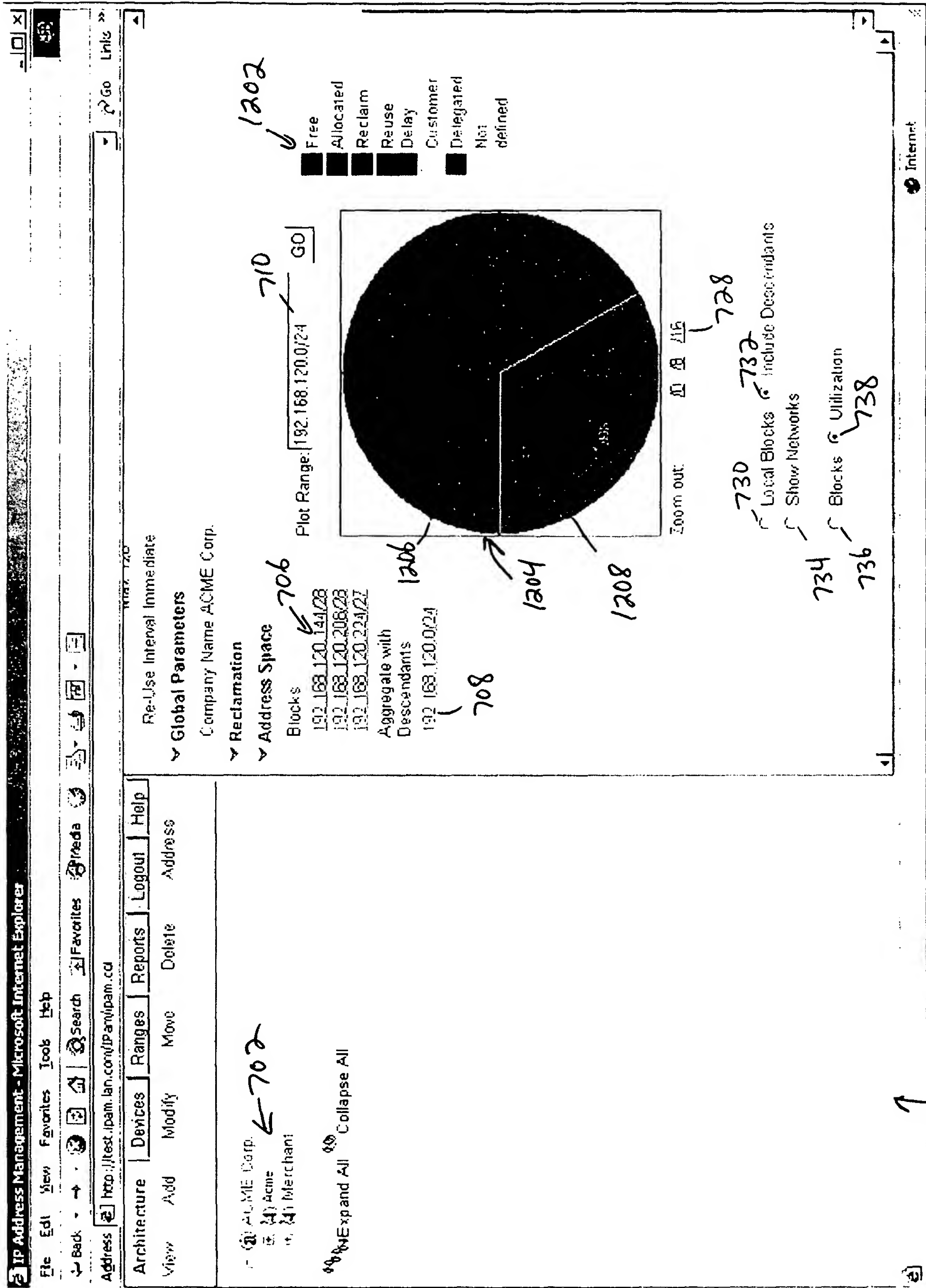


FIG. 12

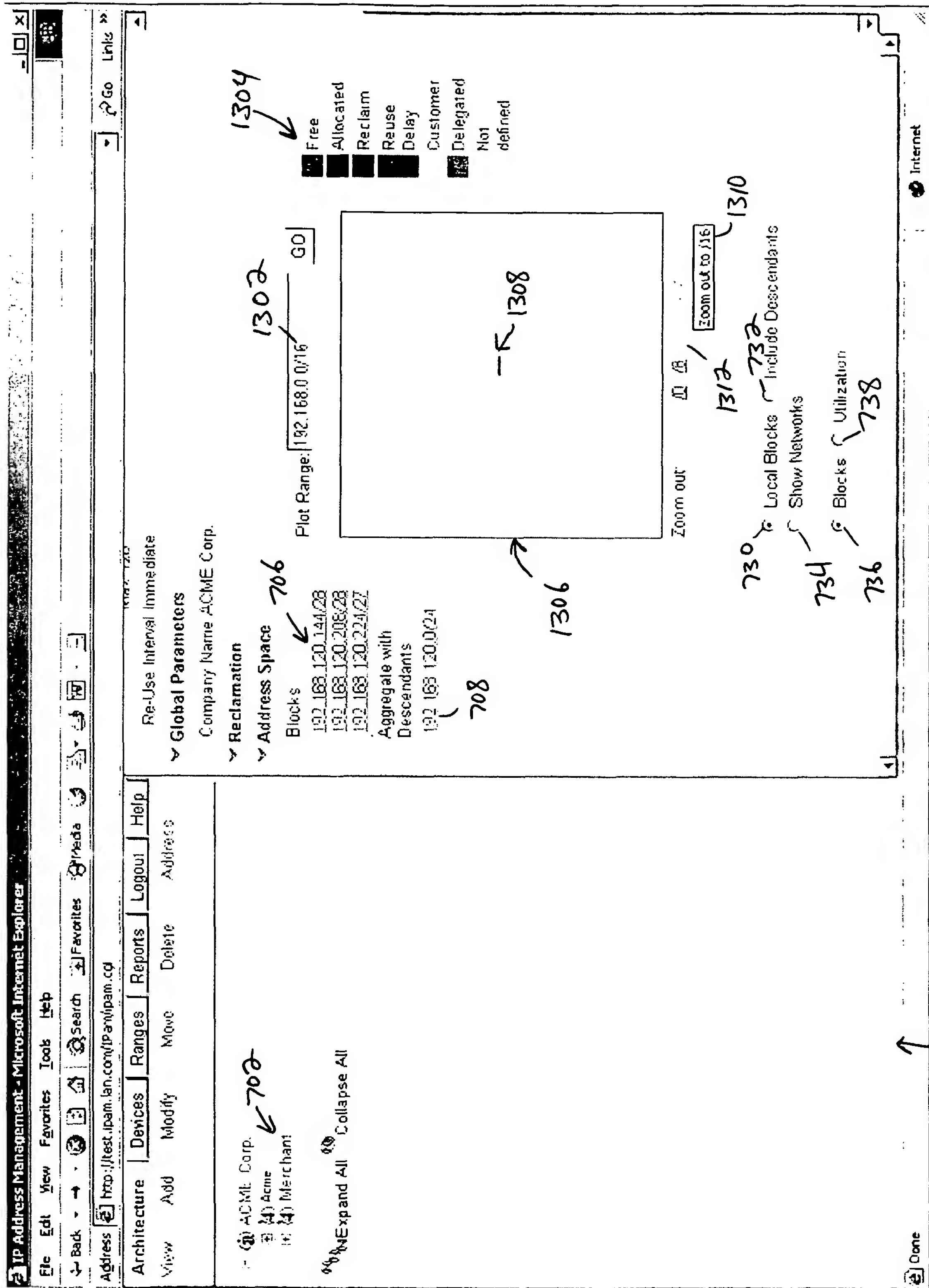
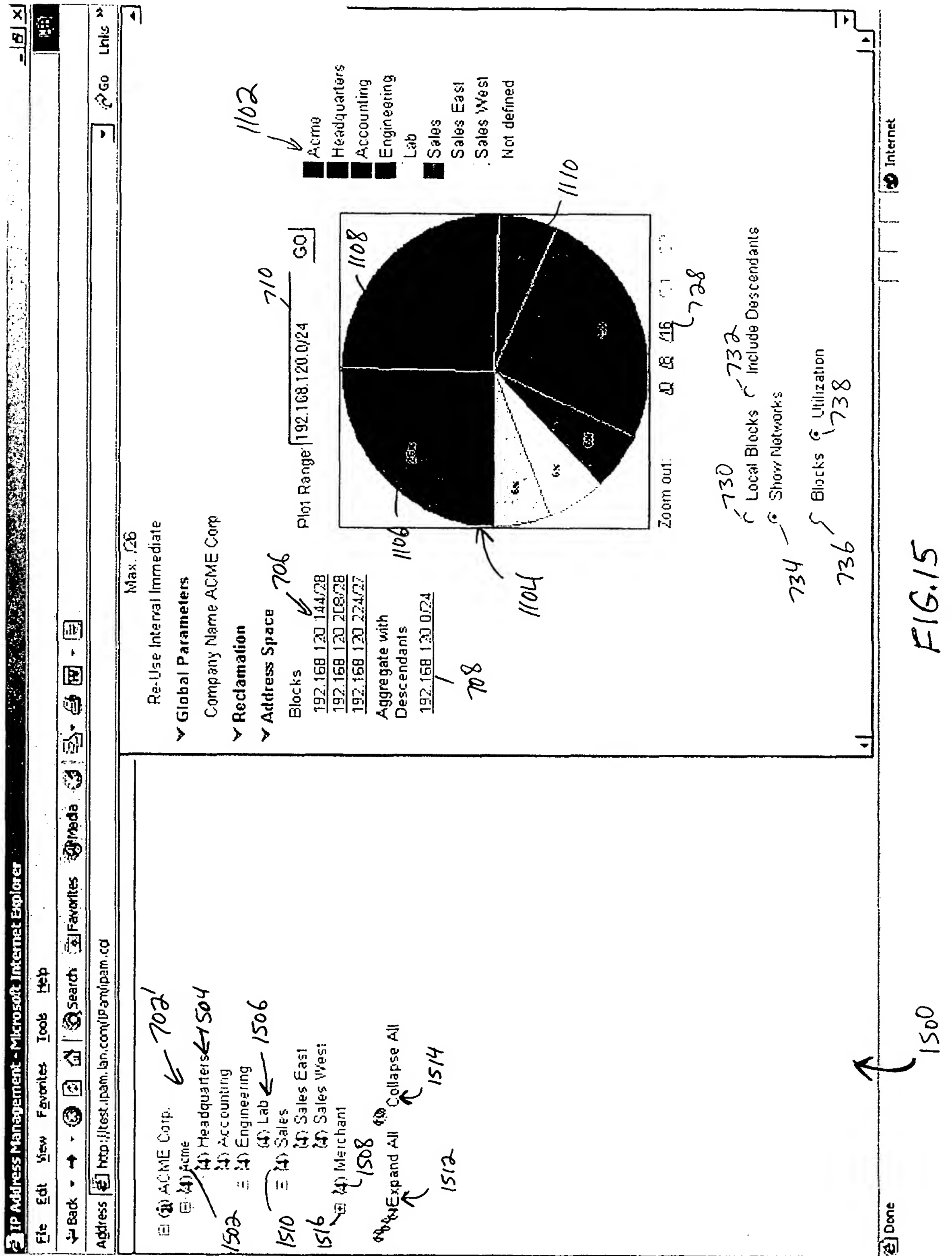
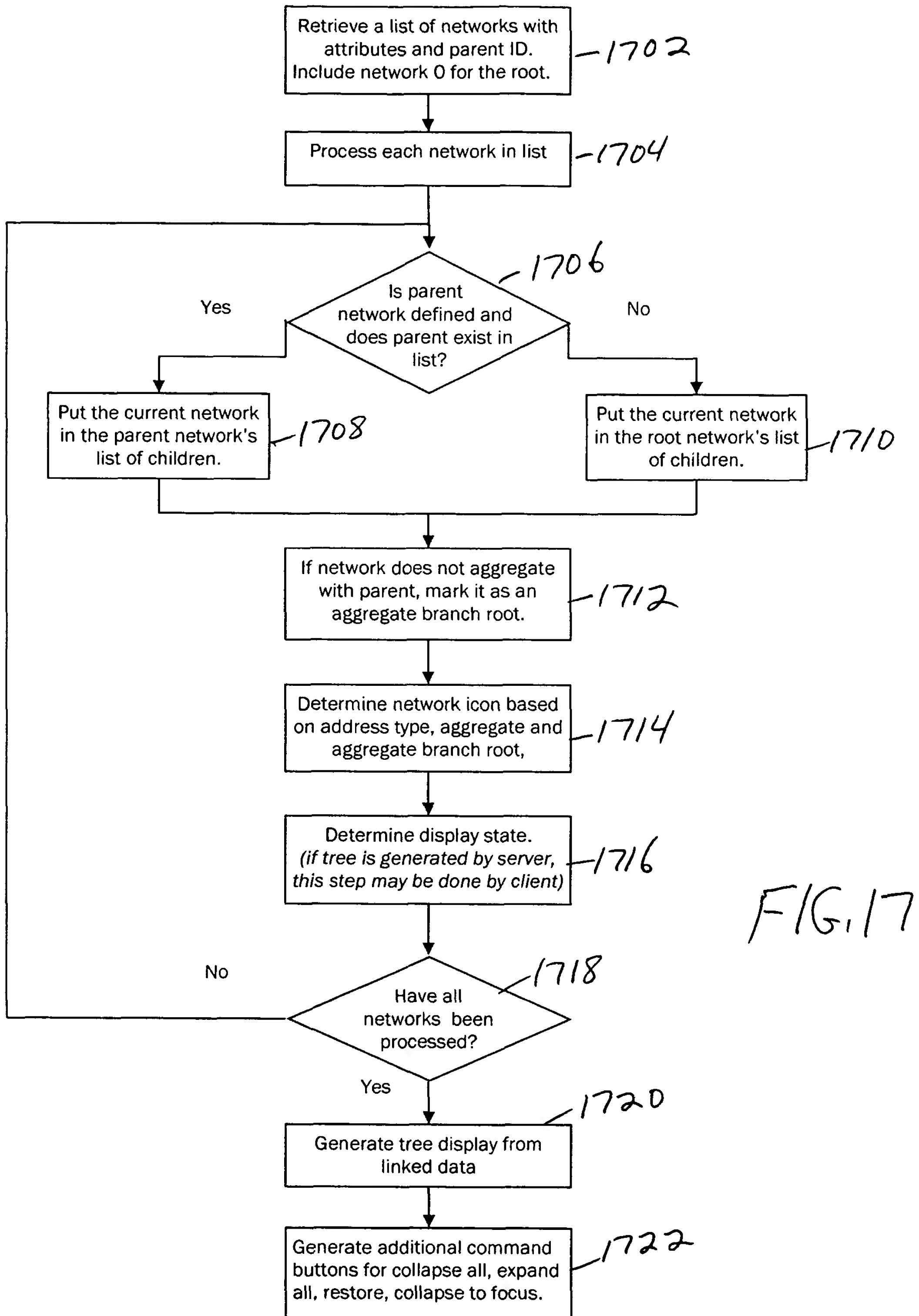
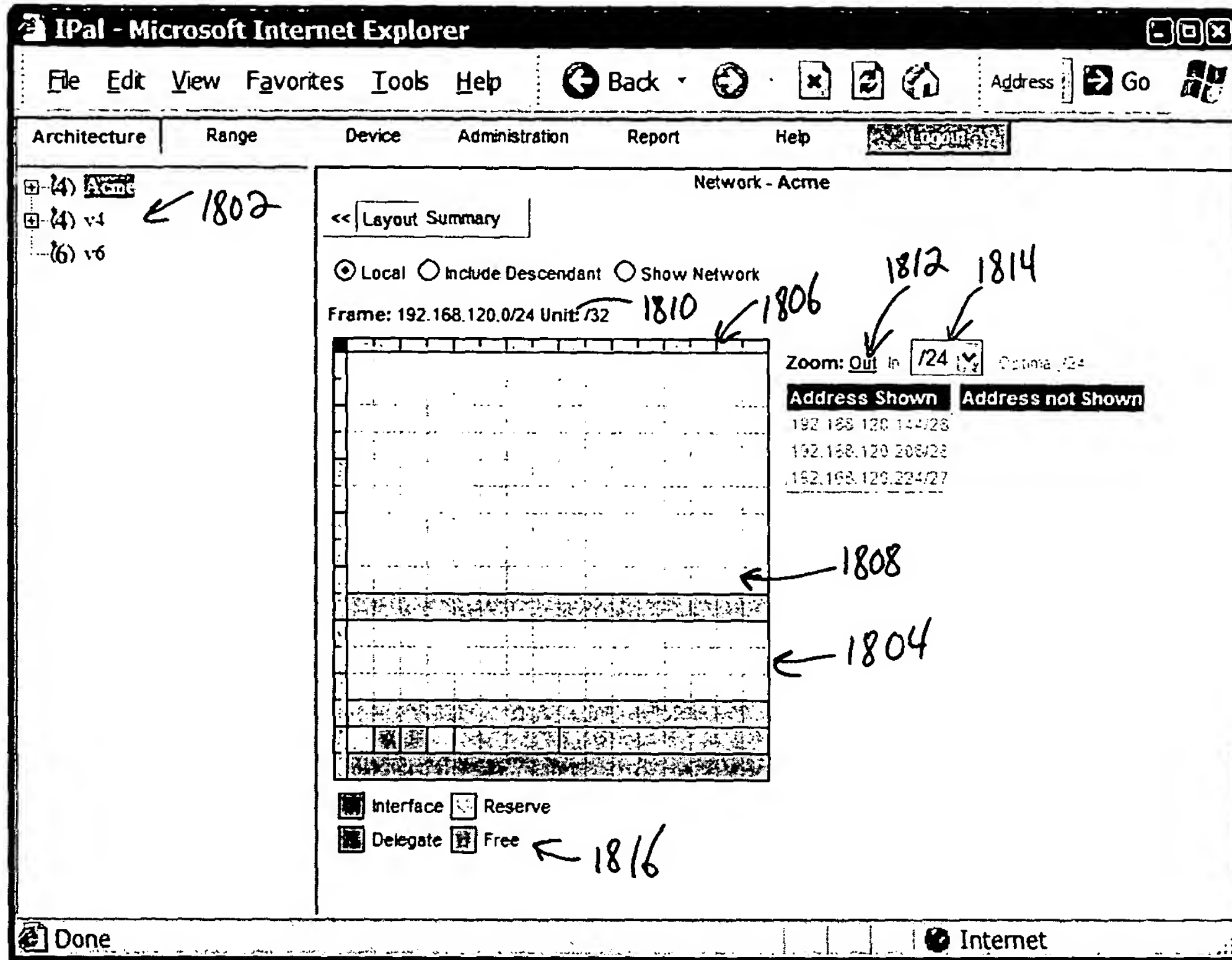


FIG. 13

FIG. 14







1800

FIG. 18

IP Address Management - Microsoft Internet Explorer

File Edit View Favorites Tools Help Back

Address: http://test.ipam.lan.com:8200/IPam/mod_per-ipam.cgi Go

Architecture | **Devices** | Ranges | Reports

View address details for network Acme

Address	Mask	Size	Status	Owner
192.168.120.144	28	16	Free	
192.168.120.208	28	16	Free	
192.168.120.224	30	4	Allocated	ENGR Link
192.168.120.228	30	4	Free	
192.168.120.232	29	8	Delegated	Engr Intranet

Max Records to display: Update

ACME Corp.

- Acme
 - Headquarters
 - Accounting
 - Engineering 1906
 - Lab
 - Software
- Sales
 - Sales East
 - Sales West
- Testing
- Merchant
 - Atl office
- Core
 - Sol
 - Earth
- Canis Major
 - Sirius
 - Murzim
 - Muliphen
- Canis Minor
- ZAcme
- Test

1908

1904

View Add Modify Delete Summary

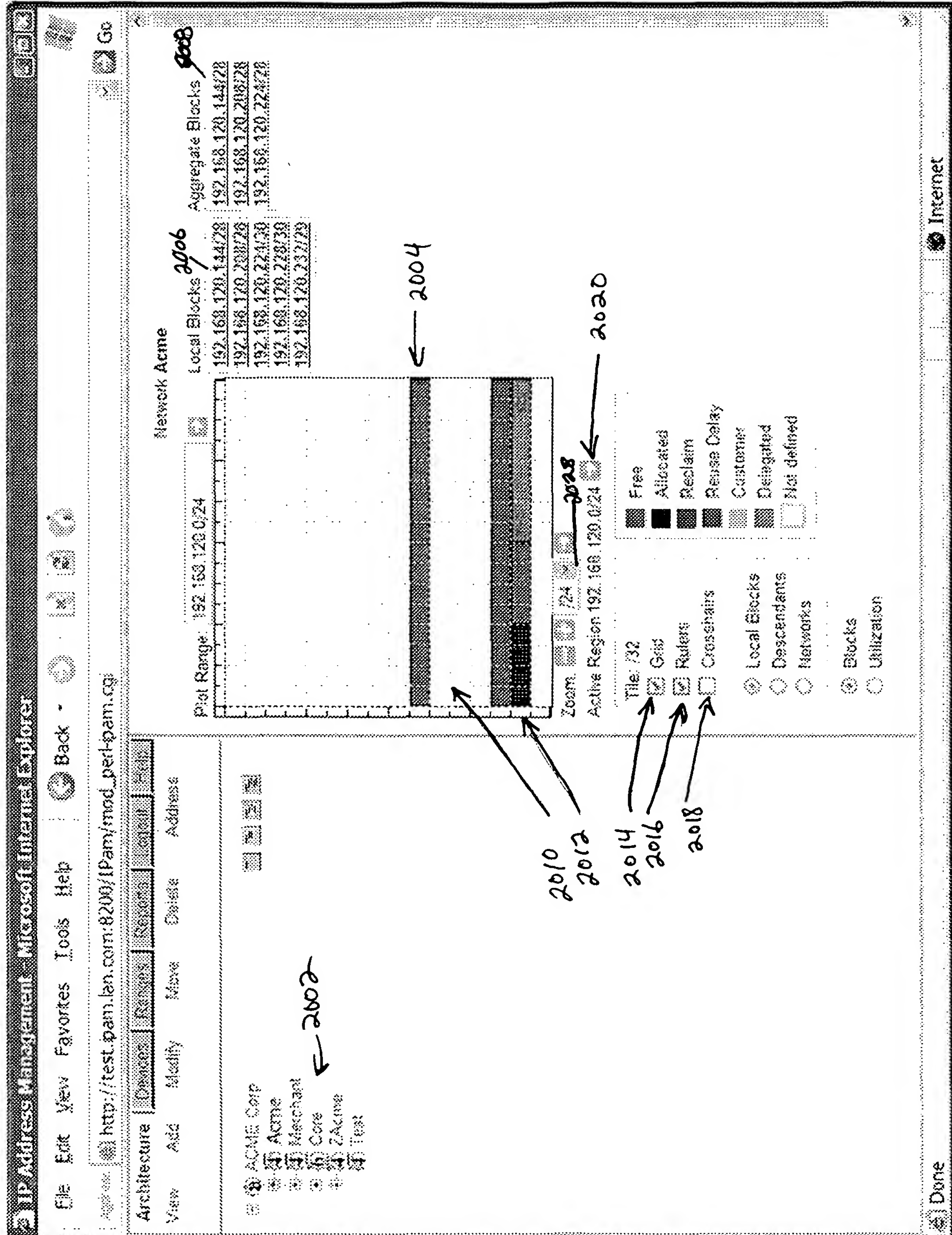
Address ranges in network Acme

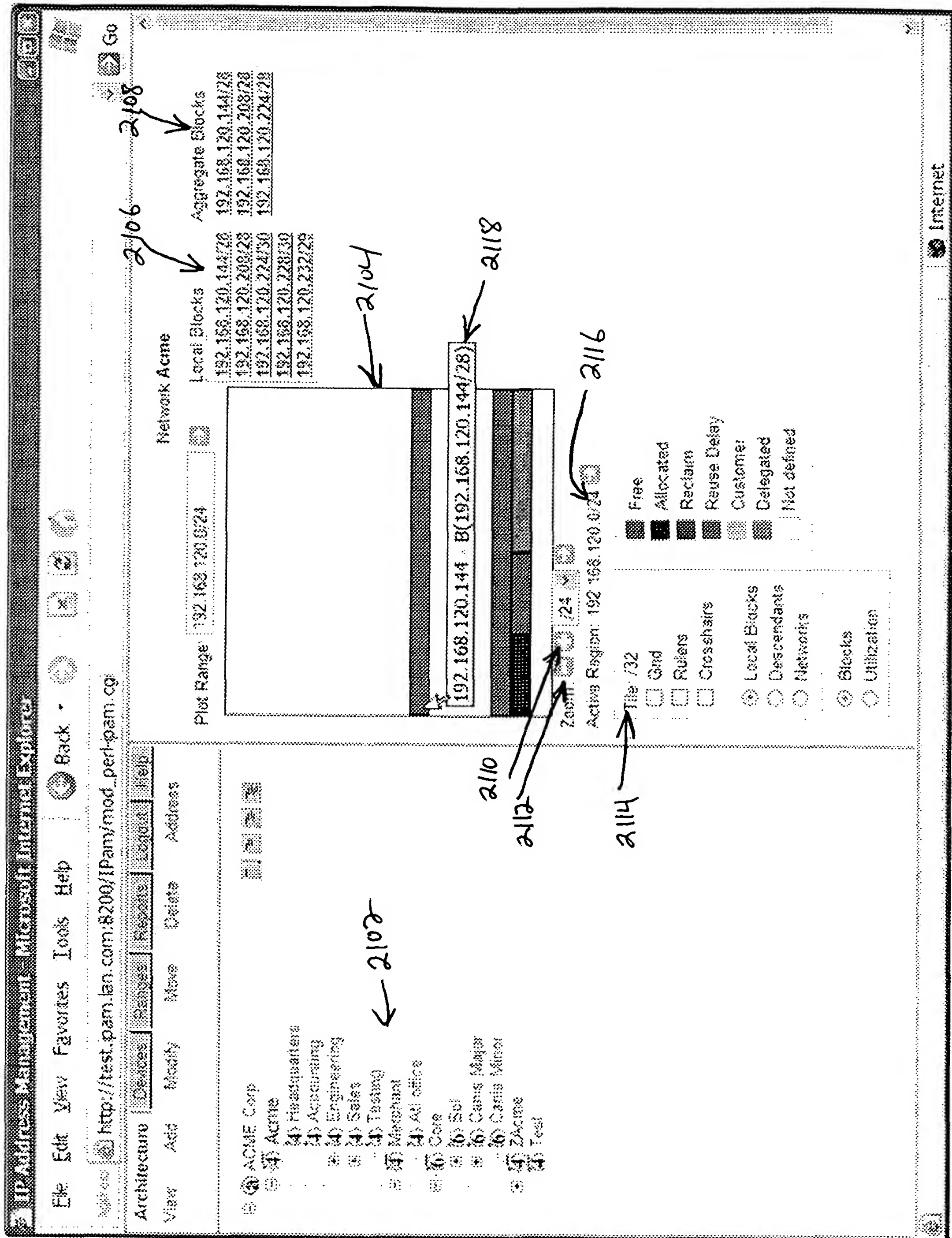
Name	Status	Created	Modified	Size
Engr	Delegated	06/23/2003	06/23/2003	8
Intranet		11:51:44	11:51:45	

Engineering Documents servers

javascript:select_network('10'); Internet

FIG. 19





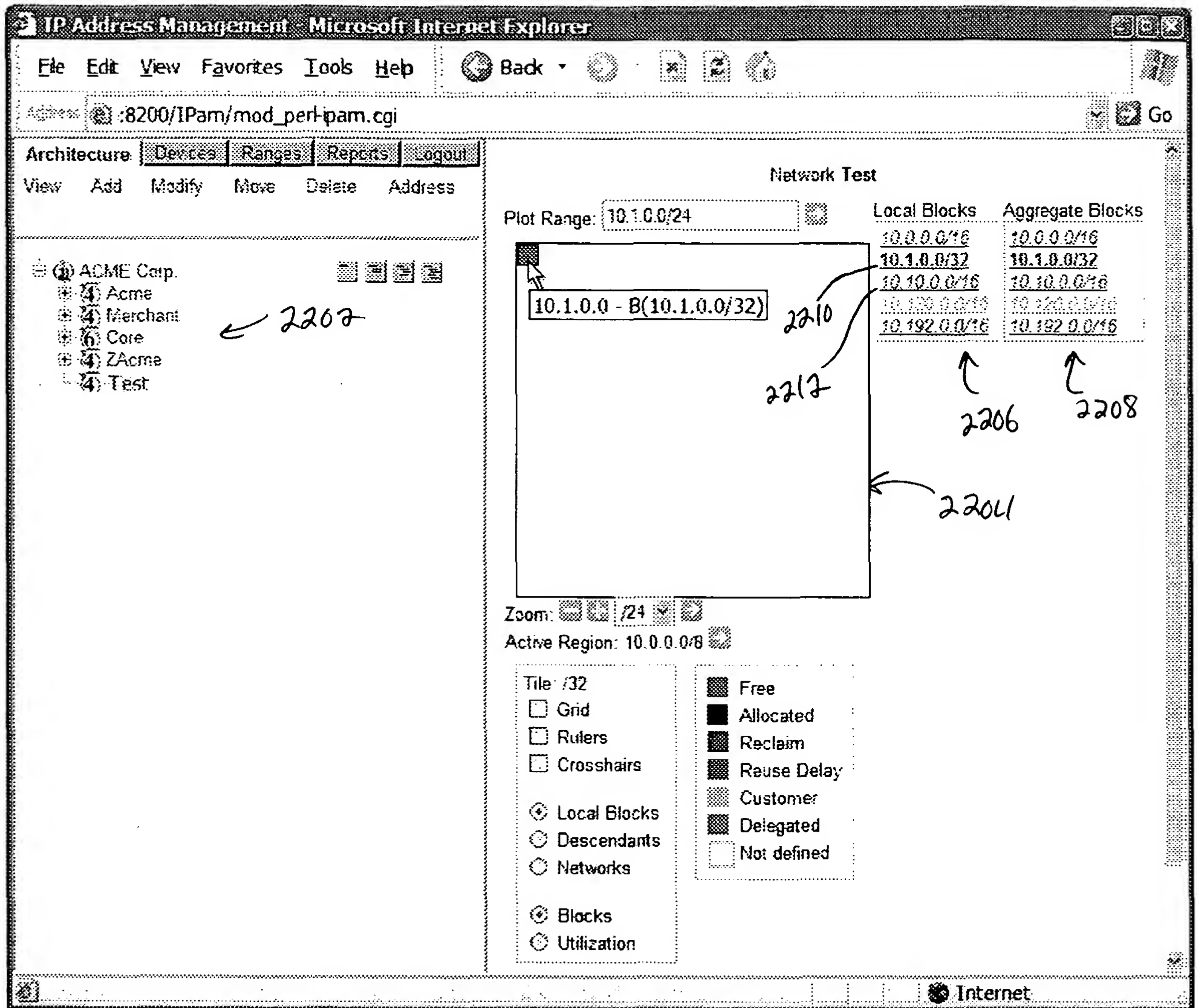
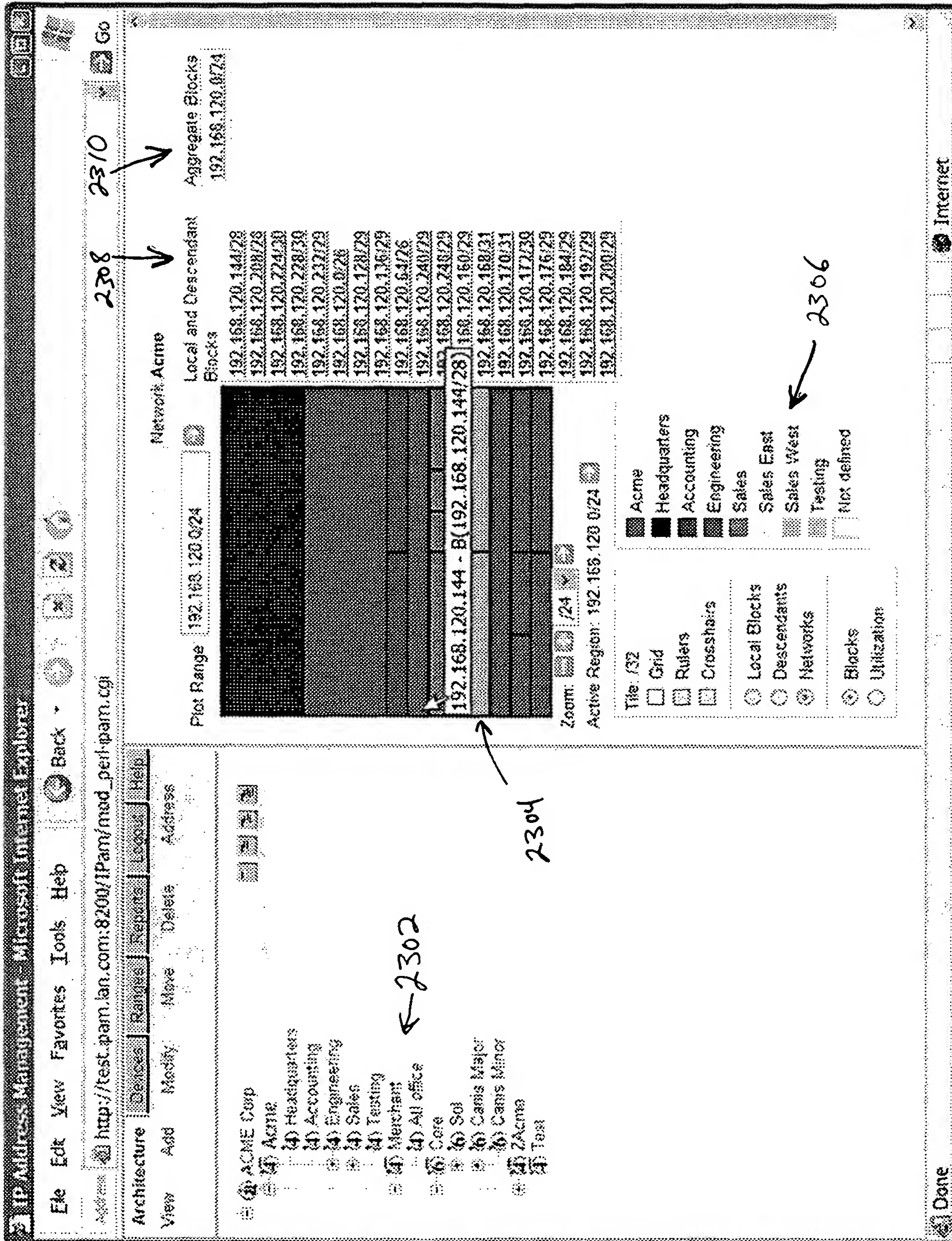


FIG. 22

2200



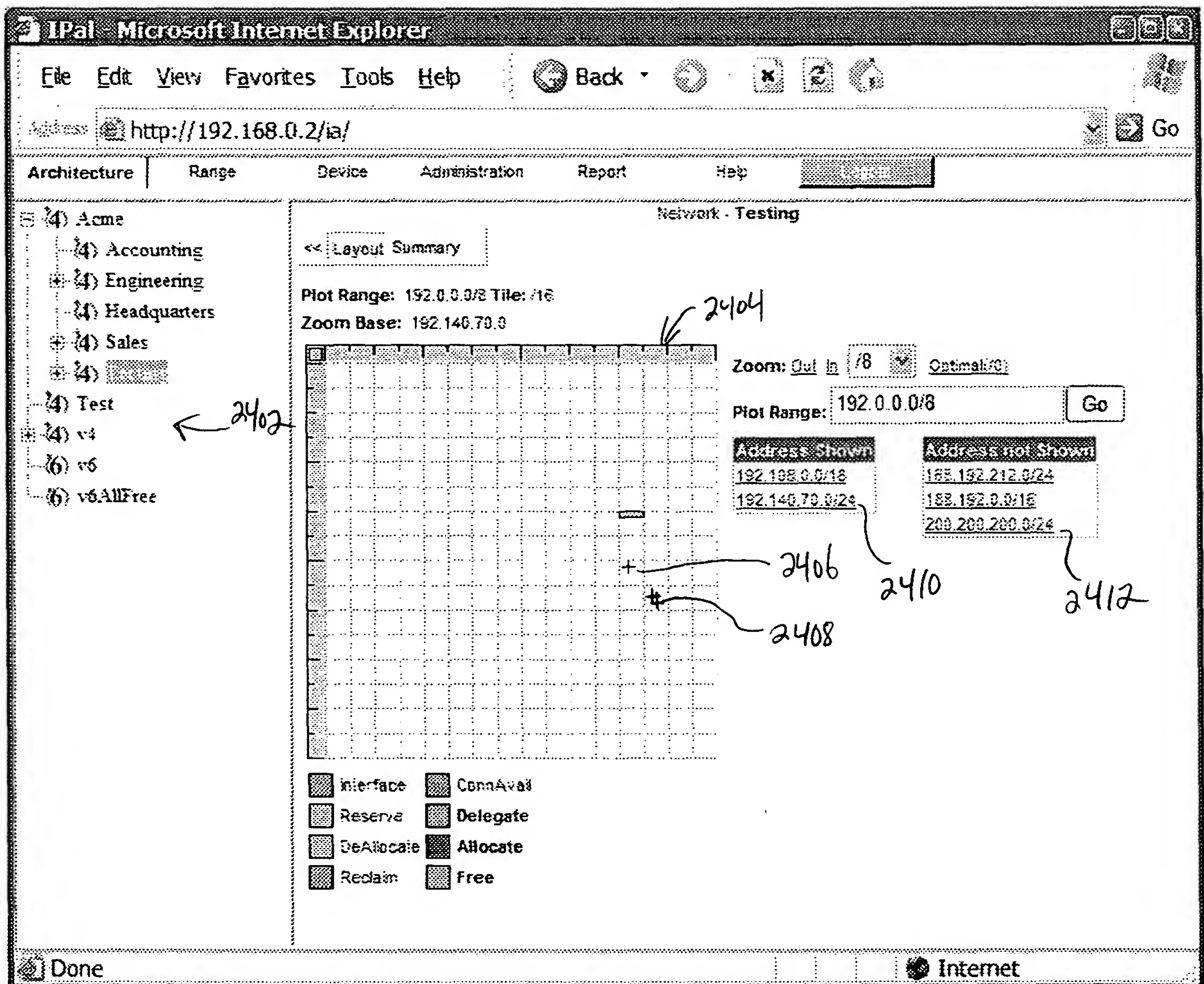
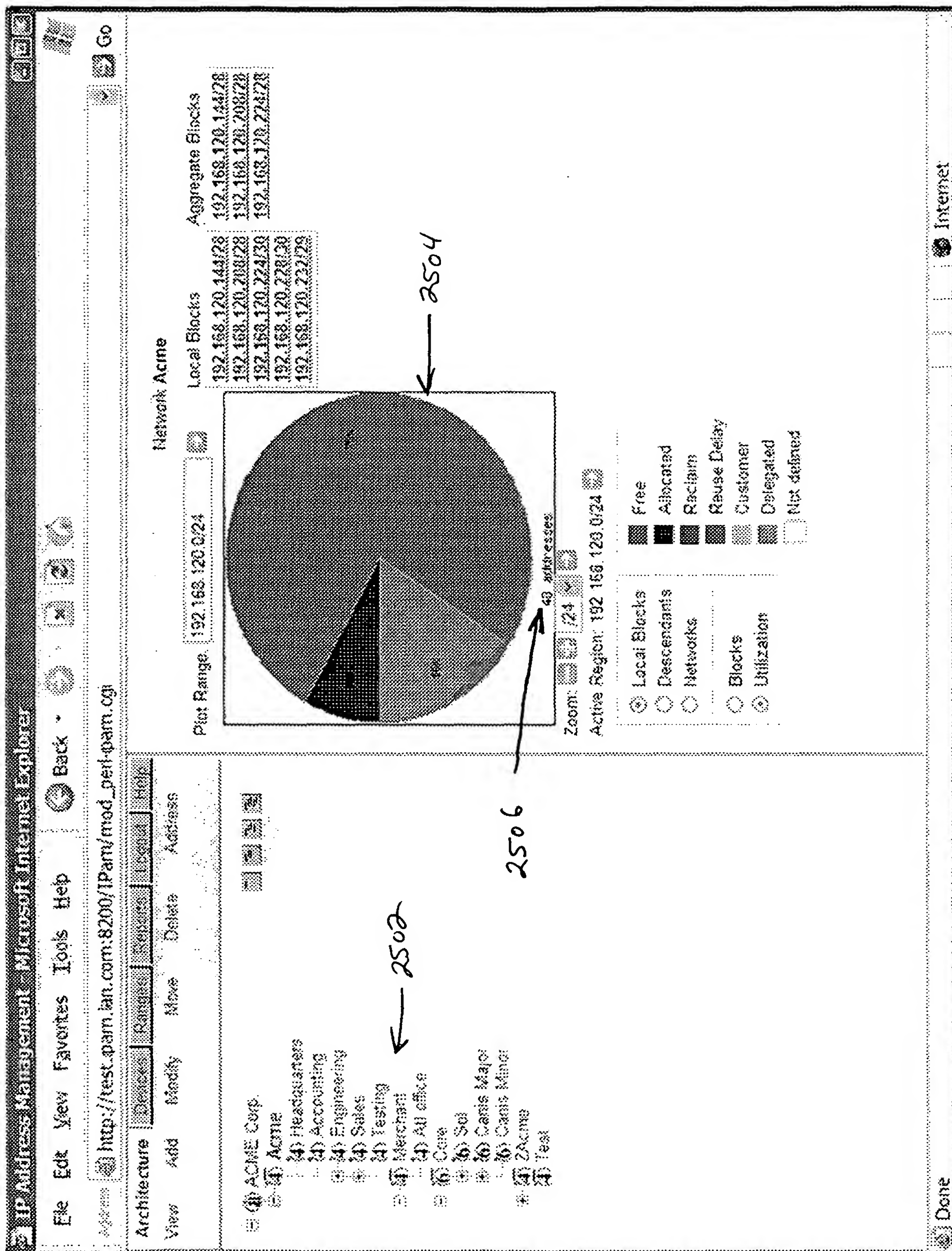


FIG. 24

2400



Start Address	Mask	Size	Status	Location	Location	Parent	Type
192.168.120.64	26	64	Allocated	Engineering	Acme	None	IPv4
10.10.10.0	24	256	Allocated	Lab	Headquarters	Acme	IPv4
192.168.120.0	26	64	Allocated	Headquarters	Accounting	Acme	IPv4
192.168.120.144	28	16	Free	Acme	Engineering	Acme	IPv4
192.168.120.208	28	16	Free	Acme	Sales	Acme	IPv4
192.168.120.224	30	4	Allocated	Acme	Lab	Engineering	IPv4
192.168.120.228	30	4	Free	Acme	Sales East	Sales	IPv4
192.168.120.232	29	8	Free	Acme	Sales West	Sales	IPv4
192.168.120.240	28	16	Free	Acme			
192.168.120.128	29	8	Allocated	Accounting			
192.168.120.136	29	8	Free	Accounting			
192.168.120.160	29	8	Allocated	Sales			
192.168.120.168	31	2	Allocated	Sales			
192.168.120.170	31	2	Free	Sales			
192.168.120.172	30	4	Allocated	Sales			
192.168.120.176	29	8	Allocated	Sales East			
192.168.120.184	29	8	Free	Sales East			
192.168.120.192	29	8	Allocated	Sales West			
192.168.120.200	29	8	Free	Sales West			

Table 1

FIG. 26

Start Address	Mask	Size	Status	Location	Location	Parent	Type
192.168.120.64	26	64	Allocated	Engineering	Acme	None	IPv4
10.10.10.0	24	256	Allocated	Lab	Headquarters	Acme	IPv4
192.168.120.0	26	64	Allocated	Headquarters	Accounting	Acme	IPv4
192.168.120.144	28	16	Free	Acme	Engineering	Acme	IPv4
192.168.120.208	28	16	Free	Acme	Sales	Acme	IPv4
192.168.120.224	30	4	Allocated	Acme	Lab	Engineering	IPv4
192.168.120.228	30	4	Free	Acme	Sales East	Sales	IPv4
192.168.120.232	29	8	Free	Acme	Sales West	Sales	IPv4
192.168.120.240	28	16	Free	Acme	Core	None	IPv6
192.168.120.128	29	8	Allocated	Accounting	Sol	Core	IPv6
192.168.120.136	29	8	Free	Accounting	Earth	Sol	IPv6
192.168.120.160	29	8	Allocated	Sales	Canis Major	Core	IPv6
192.168.120.168	31	2	Allocated	Sales	Sirius	Canis Major	IPv6
192.168.120.170	31	2	Free	Sales	Colony	Sirius	IPv6
192.168.120.172	30	4	Allocated	Sales	Murzim	Canis Major	IPv6
192.168.120.176	29	8	Allocated	Sales East	Muliphen	Canis Major	IPv6
192.168.120.184	29	8	Free	Sales East			
192.168.120.192	29	8	Allocated	Sales West			
192.168.120.200	29	8	Free	Sales West			
fe80::0	103	33,554,432	Allocated	Earth			
fe80::200:0	104	16,777,216	Allocated	Colony			
fe80::300:0	104	16,777,216	Free	Core			
fe80::400:0	102	67,108,864	Free	Core			
fe80::800:0	101	134,217,728	Free	Core			
fe80::1000:0	100	268,435,456	Free	Core			
fe80::2000:0	99	536,870,912	Free	Core			
fe80::4000:0	98	1,073,741,824	Free	Core			
fe80::8000:0	97	2,147,483,648	Free	Core			
fe80::1:0:0	96	4,294,967,296	Free	Core			
fe80::2:0:0	95	8,589,934,592	Free	Core			
fe80::4:0:0	94	17,179,869,184	Free	Core			
fe80::8:0:0	93	34,359,738,368	Free	Core			
fe80::10:0:0	92	68,719,476,736	Free	Core			
fe80::20:0:0	91	137,438,953,472	Free	Core			
fe80::40:0:0	90	274,877,906,944	Free	Core			
fe80::80:0:0	89	549,755,813,888	Free	Core			
fe80::100:0:0	88	1,099,511,627,776	Free	Core			
fe80::200:0:0	87	2,199,023,255,552	Free	Core			
fe80::400:0:0	86	4,398,046,511,104	Free	Core			
fe80::800:0:0	85	8,796,093,022,208	Free	Core			
fe80::1000:0:0	84	17,592,186,044,416	Free	Core			
fe80::2000:0:0	83	35,184,372,088,832	Free	Core			
fe80::4000:0:0	82	70,368,744,177,664	Free	Core			
fe80::8000:0:0	81	140,737,488,355,328	Free	Core			
fe80::1:0:0:0	80	281,474,976,710,656	Free	Core			
fe80::2:0:0:0	79	562,949,953,421,312	Free	Core			

TABLE 2

FIG. 27

Network	ID	Parent	Address Type	Aggre -gate	Address Blocks	
[-] (4) Acme	1	0	IPv4	Y	192.168.120.144 /28	Free
					192.168.120.208 /28	Free
					192.168.120.224 /30	Connection
					192.168.120.228 /30	Free
					192.168.120.232 /29	Free
					192.168.120.240 /28	Delegated
[-] (4) Accounting	3	1	IPv4	Y	192.168.120.128 /29	Connection
					192.168.120.136 /29	Free
[-] (4) Engineering	4	1	IPv4	Y	192.168.120.64 /26	Connection
[-] (4) LAB	5	4	IPv4	N	10.10.10.0 /24	Allocated
[-] (4) Headquarters	2	1	IPv4	Y	192.168.120.0 /26	Connection
[-] (4) Manufacturing	9	1	IPv4	Y		
[-] (4) Assembly Line	10	9	IPv4	Y		
[-] (4) Sales	6	1	IPv4	Y	192.168.120.160 /29	Connection
					192.168.120.168 /31	Connection
					192.168.120.170 /31	Free
					192.168.120.172 /30	Connection
[-] (4) Sales East	7	6	IPv4	Y	192.168.120.176 /29	Connection
					192.168.120.184 /29	Free
[-] (4) Sales West	8	6	IPv4	Y	192.168.120.192 /29	Connection
					192.168.120.200 /29	Free

TABLE 3

FIG. 28

+0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0
+8.0	+9.0	+10.0	+11.0	+12.0	+13.0	+14.0	+15.0
+16.0	+17.0	+18.0	+19.0	+20.0	+21.0	+22.0	+23.0
+24.0	+25.0	+26.0	+27.0	+28.0	+29.0	+30.0	+31.0
+32.0	+33.0	+34.0	+35.0	+36.0	+37.0	+38.0	+39.0
+40.0	+41.0	+42.0	+43.0	+44.0	+45.0	+46.0	+47.0
+48.0	+49.0	+50.0	+51.0	+52.0	+53.0	+54.0	+55.0
+56.0	+57.0	+58.0	+59.0	+60.0	+61.0	+62.0	+63.0

FIG. 29

+0.0	+0.64	+0.128	+0.192	+1.0	+1.64	+1.128	+1.192	+2.0	+2.64	+2.128	+2.192	+3.0	+3.64	+3.128	+3.192
+4.0	+4.64	+4.128	+4.192	+5.0	+5.64	+5.128	+5.192	+6.0	+6.64	+6.128	+6.192	+7.0	+7.64	+7.128	+7.192
+8.0	+8.64	+8.128	+8.192	+9.0	+9.64	+9.128	+9.192	+10.0	+10.64	+10.128	+10.192	+11.0	+11.64	+11.128	+11.192
+12.0	+12.64	+12.128	+12.192	+13.0	+13.64	+13.128	+13.192	+14.0	+14.64	+14.128	+14.192	+15.0	+15.64	+15.128	+15.192
+16.0	+16.64	+16.128	+16.192	+17.0	+17.64	+17.128	+17.192	+18.0	+18.64	+18.128	+18.192	+19.0	+19.64	+19.128	+19.192
+20.0	+20.64	+20.128	+20.192	+21.0	+21.64	+21.128	+21.192	+22.0	+22.64	+22.128	+22.192	+23.0	+23.64	+23.128	+23.192
+24.0	+24.64	+24.128	+24.192	+25.0	+25.64	+25.128	+25.192	+26.0	+26.64	+26.128	+26.192	+27.0	+27.64	+27.128	+27.192
+28.0	+28.64	+28.128	+28.192	+29.0	+29.64	+29.128	+29.192	+30.0	+30.64	+30.128	+30.192	+31.0	+31.64	+31.128	+31.192
+32.0	+32.64	+32.128	+32.192	+33.0	+33.64	+33.128	+33.192	+34.0	+34.64	+34.128	+34.192	+35.0	+35.64	+35.128	+35.192
+36.0	+36.64	+36.128	+36.192	+37.0	+37.64	+37.128	+37.192	+38.0	+38.64	+38.128	+38.192	+39.0	+39.64	+39.128	+39.192
+40.0	+40.64	+40.128	+40.192	+41.0	+41.64	+41.128	+41.192	+42.0	+42.64	+42.128	+42.192	+43.0	+43.64	+43.128	+43.192
+44.0	+44.64	+44.128	+44.192	+45.0	+45.64	+45.128	+45.192	+46.0	+46.64	+46.128	+46.192	+47.0	+47.64	+47.128	+47.192
+48.0	+48.64	+48.128	+48.192	+49.0	+49.64	+49.128	+49.192	+50.0	+50.64	+50.128	+50.192	+51.0	+51.64	+51.128	+51.192
+52.0	+52.64	+52.128	+52.192	+53.0	+53.64	+53.128	+53.192	+54.0	+54.64	+54.128	+54.192	+55.0	+55.64	+55.128	+55.192
+56.0	+56.64	+56.128	+56.192	+57.0	+57.64	+57.128	+57.192	+58.0	+58.64	+58.128	+58.192	+59.0	+59.64	+59.128	+59.192
+60.0	+60.64	+60.128	+60.192	+61.0	+61.64	+61.128	+61.192	+62.0	+62.64	+62.128	+62.192	+63.0	+63.64	+63.128	+63.192

FIG. 30

+0.0	+1.0	+2.0	+3.0
+4.0	+5.0	+6.0	+7.0
+8.0	+9.0	+10.0	+11.0
+12.0	+13.0	+14.0	+15.0

FIG. 31

+0.0	+0.16	+0.32	+0.48	+0.64	+0.80	+0.96	+0.112	+0.128	+0.144	+0.160	+0.176	+0.192	+0.208	+0.224	+0.240
+1.0	+1.16	+1.32	+1.48	+1.64	+1.80	+1.96	+1.112	+1.128	+1.144	+1.160	+1.176	+1.192	+1.208	+1.224	+1.240
+2.0	+2.16	+2.32	+2.48	+2.64	+2.80	+2.96	+2.112	+2.128	+2.144	+2.160	+2.176	+2.192	+2.208	+2.224	+2.240
+3.0	+3.16	+3.32	+3.48	+3.64	+3.80	+3.96	+3.112	+3.128	+3.144	+3.160	+3.176	+3.192	+3.208	+3.224	+3.240
+4.0	+4.16	+4.32	+4.48	+4.64	+4.80	+4.96	+4.112	+4.128	+4.144	+4.160	+4.176	+4.192	+4.208	+4.224	+4.240
+5.0	+5.16	+5.32	+5.48	+5.64	+5.80	+5.96	+5.112	+5.128	+5.144	+5.160	+5.176	+5.192	+5.208	+5.224	+5.240
+6.0	+6.16	+6.32	+6.48	+6.64	+6.80	+6.96	+6.112	+6.128	+6.144	+6.160	+6.176	+6.192	+6.208	+6.224	+6.240
+7.0	+7.16	+7.32	+7.48	+7.64	+7.80	+7.96	+7.112	+7.128	+7.144	+7.160	+7.176	+7.192	+7.208	+7.224	+7.240
+8.0	+8.16	+8.32	+8.48	+8.64	+8.80	+8.96	+8.112	+8.128	+8.144	+8.160	+8.176	+8.192	+8.208	+8.224	+8.240
+9.0	+9.16	+9.32	+9.48	+9.64	+9.80	+9.96	+9.112	+9.128	+9.144	+9.160	+9.176	+9.192	+9.208	+9.224	+9.240
+10.0	+10.16	+10.32	+10.48	+10.64	+10.80	+10.96	+10.112	+10.128	+10.144	+10.160	+10.176	+10.192	+10.208	+10.224	+10.240
+11.0	+11.16	+11.32	+11.48	+11.64	+11.80	+11.96	+11.112	+11.128	+11.144	+11.160	+11.176	+11.192	+11.208	+11.224	+11.240
+12.0	+12.16	+12.32	+12.48	+12.64	+12.80	+12.96	+12.112	+12.128	+12.144	+12.160	+12.176	+12.192	+12.208	+12.224	+12.240
+13.0	+13.16	+13.32	+13.48	+13.64	+13.80	+13.96	+13.112	+13.128	+13.144	+13.160	+13.176	+13.192	+13.208	+13.224	+13.240
+14.0	+14.16	+14.32	+14.48	+14.64	+14.80	+14.96	+14.112	+14.128	+14.144	+14.160	+14.176	+14.192	+14.208	+14.224	+14.240
+15.0	+15.16	+15.32	+15.48	+15.64	+15.80	+15.96	+15.112	+15.128	+15.144	+15.160	+15.176	+15.192	+15.208	+15.224	+15.240

FIG. 32

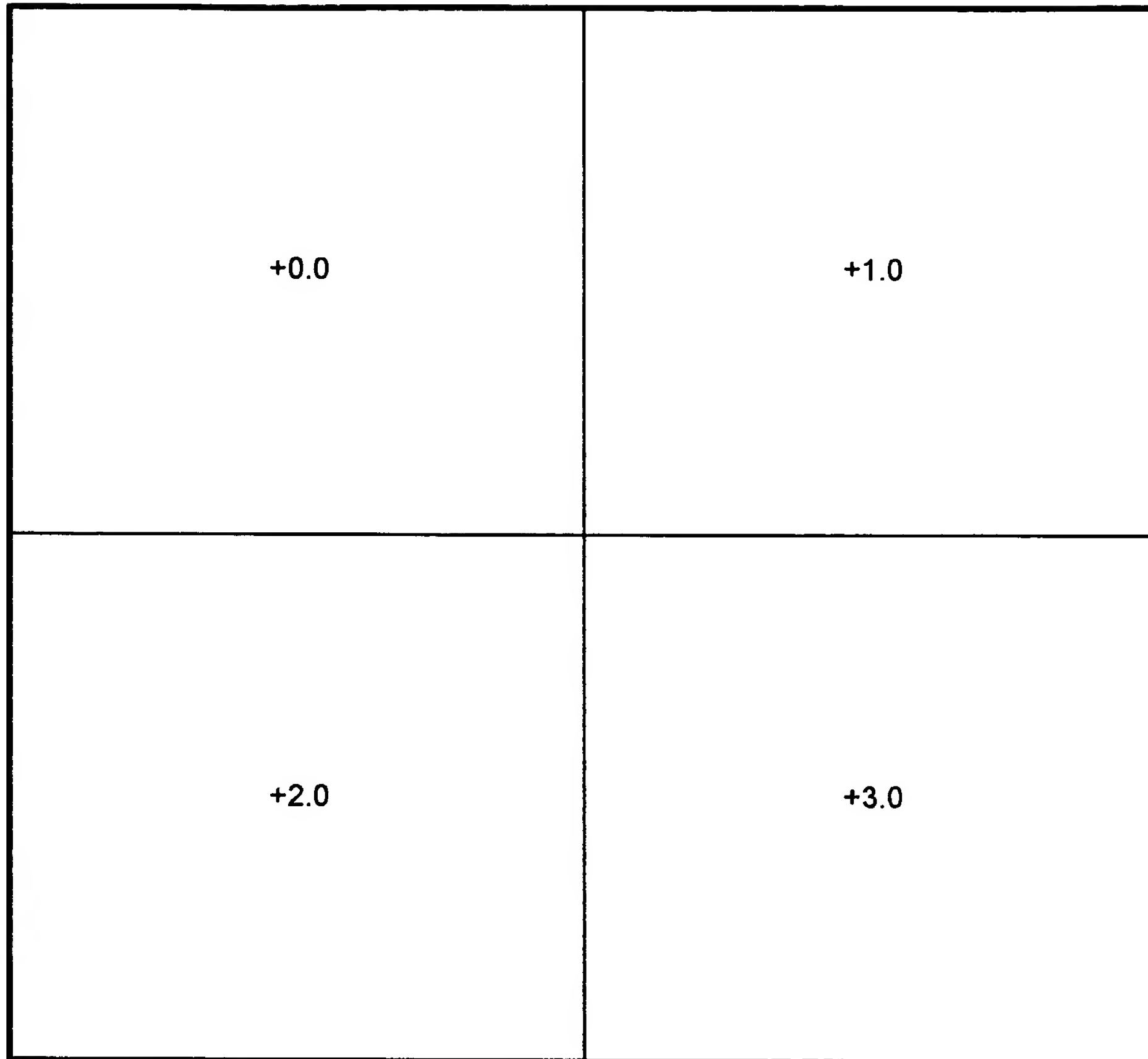


FIG. 33

+0.0	+0.4	+0.8	+0.12	+0.16	+0.20	+0.24	+0.28	+0.32	+0.36	+0.40	+0.44	+0.48	+0.52	+0.56	+0.60
+0.64	+0.68	+0.72	+0.76	+0.80	+0.84	+0.88	+0.92	+0.96	+1.00	+1.04	+1.08	+1.12	+1.16	+1.20	+1.24
+0.128	+0.132	+0.136	+0.140	+0.144	+0.148	+0.152	+0.156	+0.160	+0.164	+0.168	+0.172	+0.176	+0.180	+0.184	+0.188
+0.192	+0.196	+0.200	+0.204	+0.208	+0.212	+0.216	+0.220	+0.224	+0.228	+0.232	+0.236	+0.240	+0.244	+0.248	+0.252
+1.0	+1.4	+1.8	+1.12	+1.16	+1.20	+1.24	+1.28	+1.32	+1.36	+1.40	+1.44	+1.48	+1.52	+1.56	+1.60
+1.64	+1.68	+1.72	+1.76	+1.80	+1.84	+1.88	+1.92	+1.96	+2.00	+2.04	+2.08	+2.12	+2.16	+2.20	+2.24
+1.128	+1.132	+1.136	+1.140	+1.144	+1.148	+1.152	+1.156	+1.160	+1.164	+1.168	+1.172	+1.176	+1.180	+1.184	+1.188
+1.192	+1.196	+1.200	+1.204	+1.208	+1.212	+1.216	+1.220	+1.224	+1.228	+1.232	+1.236	+1.240	+1.244	+1.248	+1.252
+2.0	+2.4	+2.8	+2.12	+2.16	+2.20	+2.24	+2.28	+2.32	+2.36	+2.40	+2.44	+2.48	+2.52	+2.56	+2.60
+2.64	+2.68	+2.72	+2.76	+2.80	+2.84	+2.88	+2.92	+2.96	+3.00	+3.04	+3.08	+3.12	+3.16	+3.20	+3.24
+2.128	+2.132	+2.136	+2.140	+2.144	+2.148	+2.152	+2.156	+2.160	+2.164	+2.168	+2.172	+2.176	+2.180	+2.184	+2.188
+2.192	+2.196	+2.200	+2.204	+2.208	+2.212	+2.216	+2.220	+2.224	+2.228	+2.232	+2.236	+2.240	+2.244	+2.248	+2.252
+3.0	+3.4	+3.8	+3.12	+3.16	+3.20	+3.24	+3.28	+3.32	+3.36	+3.40	+3.44	+3.48	+3.52	+3.56	+3.60
+3.64	+3.68	+3.72	+3.76	+3.80	+3.84	+3.88	+3.92	+3.96	+4.00	+4.04	+4.08	+4.12	+4.16	+4.20	+4.24
+3.128	+3.132	+3.136	+3.140	+3.144	+3.148	+3.152	+3.156	+3.160	+3.164	+3.168	+3.172	+3.176	+3.180	+3.184	+3.188
+3.192	+3.196	+3.200	+3.204	+3.208	+3.212	+3.216	+3.220	+3.224	+3.228	+3.232	+3.236	+3.240	+3.244	+3.248	+3.252

FIG. 34

FIG. 35

